

(i) Printed Pages :3]

Roll No.

(ii) Questions :9]

Sub. Code :

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Exam. Code:

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**BA./B.Sc. (General) 1st Semester
Examination**

1127

ZOOLOGY

Biodiversity & Cell Biology-II

Paper : II (Zoo-102)

Time : 3 Hours]

[Max. Marks : 36

Note :- (i) Attempt five questions in all.

(ii) Question No. 1 is compulsory.

(iii) Select one question from each Unit.

(iv) Illustrate your answer with suitable diagrams.

1. Give/Define brief explanations of the following

(a) Scolex

(b) Mehlis's gland

(c) Protandry

(d) Heterochromatin

(e) Pineal spiculc

(f) Hexacanth

(g) Gravid Proglottid

(h) Benign Tumour

1x8=8

Unit-I

2. Give a detailed account of Life History of Fasciola. 7

3. (a) Describe the morphological adaptations of Helminthes.

(b) Explain the sense organs of Ascaris. 3½,3½

Unit-II

4. Explain the different types of Nephridia of Pheretima. 7

5. (a) Draw well labelled diagram of T. S. Pheretima through Typhlosolar region. 4

(b) Classify upto order with ecological note and economic importance (if any) of any two of the following

(i) Eunice

(ii) Tubifex

(iii) Pontobdella

1½ each

Unit-III

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|----|---|---|
| 6. | (a) Explain Polymorphism in Lysosome. | 5 |
| | (b) What is the role of Autolysis ? | 2 |
| 7. | (a) Differentiate between Prokaryotic and Eukaryotic Ribosomes. | 4 |
| | (b) Write a note on centriolar satellite complex. | 3 |

Unit-IV

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|----|--|---|
| 8. | (a) Describe the structure and functions of Nucleolus. | 4 |
| | (b) Explain the types of Cancer. | 3 |
| 9. | (a) Differentiate between B cells and T cells. | 4 |
| | (b) How do the B cells respond to Antigens ? | 3 |